

Table 1. Comparison of Assumptions of the LEC 2020 Plan Incremental Model Runs

Feature	2005 (LEC2005; 2/00)	2010 (LEC2010; 2/00)	2015 (LEC2015; 2/00)	LEC-1 (completed in 2/00)
Land Use for urban and agricultural areas	Best available information for 1995 Condition. Adjusted to reflect construction of STA's	2020 projections based on County Comprehensive Plans. Adjusted to reflect construction of STA's and appropriate components in Restudy	2020 projections based on County Comprehensive Plans. Adjusted to reflect construction of STA's and appropriate components in Restudy	2020 projections based on County Comprehensive Plans. Adjusted to reflect construction of STA's. and appropriate components in Restudy
Vegetation Cover for natural areas	Same as 1995. Best available information; generally reflect conditions between 1990-1995.	Same as 1995. Best available information; generally reflect conditions between 1990-1995.	Same as 1995. Best available information; generally reflect conditions between 1990-1995.	Same as 1995. Best available information; generally reflect conditions between 1990-1995.
LOSA/EAA Acres Irrigated	Approx 501,760 acres ¹	Approx 460,800 acres ¹	Approx 437,760 acres ¹	Approx 437,760 acres ¹
Lake O Regulation Schedule	WSE Schedule	Modified WSE Schedule ²	Modified WSE Schedule ²	Modified WSE Schedule ²
Lake Okeechobee Supply-side Management for LOSA	Same as 95BASE	Modified ³	Modified ³	Modified ³
Caloosahatchee River Basin Demands- includes municipal demands and Supplies	Demands for 2005 estimated using AFSIRS method per Caloosahatchee Water Management Plan.	Demands for 2010 estimated using AFSIRS method per Caloosahatchee Water Management Plan.	Supplies limited to Restudy deliveries of approx. 29,000 ac-ft/yr at S-77	Supplies limited to Restudy deliveries of approx. 29,000 ac-ft/yr at S-77
Caloosahatchee Basin Backpumping	Not applicable	Set to zero as per Caloosahatchee Water Management Plan	Set to zero as per Caloosahatchee Water Management Plan	Set to zero as per Caloosahatchee Water Management Plan
St Lucie (C-44) Reservoir	Not constructed yet	Constructed & Operated as per Indian River Lagoon Feasibility Study	Constructed & Operated as per Indian River Lagoon Feasibility Study	Constructed & Operated as per Indian River Lagoon Feasibility Study
Seminole-Brighton Tribe Demands	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr	28,500 ac-ft annual average; maximum 44,0000 ac-ft/yr
STA's associated with the EAA	Yes	Yes	Yes	Yes
EAA Runoff Reduction & Make-up water BMP	No runoff reduction	No runoff reduction	No runoff reduction	No runoff reduction
Make-up water associated with BMP's from LOK	No	No	No	No

¹ Accounts for reduction due to construction of STAs and reservoirs

² WSE modified to incorporate operations associated with LOK ASR and EAA reservoirs, and North of Lake Reservoir

³ Modified SSM accounts for storage available in reservoirs around Lake Okeechobee

Feature	2005 (LEC2005; 2/00)	2010 (LEC2010; 2/00)	2015 (LEC2015; 2/00)	LEC-1 (2/00)
WCAs Schedule				
• WCA 1 & 2A	C&SF Interim Regulation Schedule.	C&SF Interim Regulation Schedule.	C&SF Interim Regulation Schedule.	C&SF Interim Regulation Schedule.
• WCA 2B	Current regulation schedule	Rainfall driven schedule	Rainfall driven schedule	Rainfall driven schedule
• WCA 3	Rainfall driven schedule	Rainfall driven schedule	Rainfall driven schedule	Rainfall driven schedule
Modified Waters Deliveries	MWD-Similar to 202BASE w/o tailwater constraints C111-Similar to Restudy 2010	MWD-Similar to 202BASE w/o tailwater constraints C111-Similar to Restudy 2010	As per Restudy's Comprehensive Plan	As per Restudy's Comprehensive Plan
LECSA Population for Utilities	5,304,831 persons	5,853,886 persons	6,402,941 persons	6,951,998 persons, as per LEC Utility survey
LECSA Public Water Supply Demands on Surficial Aquifer System and Surface Water	325,464 mgy, 892.5 mgd	364,927 mgy, 999 mgd	403,948 mgy, 1106.5 mgd	Projected demands based on LEC Utility survey: 443,411 mgy, 1,214.8 mgd
LECSA Public Water Supply Wellfield Distribution	Modifications to eleven utilities' preferred wellfield locations (based on LEC Utility survey)	Modifications to eleven utilities' preferred wellfield locations (based on LEC Utility survey)	Modifications to eleven utilities' preferred wellfield locations (based on LEC Utility survey)	Modifications to eleven utilities' preferred wellfield locations (based on LEC Utility survey)
LECSA water shortage policy	Yes	Yes	Yes	Yes
LEC Irrigation Demands on Surficial Aquifer System	Based on projected 1995 land use and climatic variation.	Same as LEC-1	Same as LEC-1	Based on projected 2020 land use and climatic variation.
Operational adjustments to Meet MFL for Biscayne Aquifer	Canal operation criteria: C-51@S-155 - 7.80; C-16@S-40 - 7.80; C-15@S-41 - 7.80; C-6@S-26 - 2.00; C-4@S-25B - 2.20; C-2@S-22 - 2.20 NGVD	Canal operation criteria: C-51@S-155 - 7.80; C-16@S-40 - 7.80; C-15@S-41 - 7.80; C-6@S-26 - 2.00; C-4@S-25B - 2.20; C-2@S-22 - 2.20 NGVD	Canal operation criteria: C-51@S-155 - 7.80; C-16@S-40 - 7.80; C-15@S-41 - 7.80; C-6@S-26 - 2.00; C-4@S-25B - 2.20; C-2@S-22 - 2.20 NGVD	Canal operation criteria: C-51@S-155 - 7.80; C-16@S-40 - 7.80; C-15@S-41 - 7.80; C-6@S-26 - 2.00; C-4@S-25B - 2.20; C-2@S-22 - 2.20 NGVD
LEC Interim Plan Projects				
• L-8 Basin Project	• Not constructed	• Not constructed	• Yes, as per Restudy	• Yes, as per Restudy
• Broward County Secondary Canal Network	• Not constructed	• Yes, as per Restudy	• Yes, as per Restudy	• Yes, as per Restudy
• Miami-Dade Utility ASR	• 75 mgd	• 75 mgd	• 75 mgd	• 75 mgd
• Miami-Dade Reuse	• 0 mgd at West Facility • 0 mgd at South Facility	• 0 mgd at West Facility • 0 mgd at South Facility	• 0 mgd at West Facility • 0 mgd at South Facility	• 50 mgd at West Facility • 131 mgd at South Facility
Optimization of Regional ASR	Not applicatble	Not applicable	Yes included	Yes included

Table 2. Implementation of Restudy Components by 2020

ID	COMPONENT NAME	2005	2010 ⁱ	2015 ⁱⁱ	2020 WITH RESTUDY ⁱⁱⁱ	NOTES
	INDIAN RIVER LAGOON					
B	C-44 Basin Storage Reservoir		X			
UU p1	C-23,C-24		X			
UU p2	C-25, N&S-Fork Reservoir		X			
	EVERGLADES AGRICULTURE AREA					
G p1	EAA Reservoirs Phase 1		X			
G p2	EAA Reservoir Phase 2			X		
	LAKE OKEECHOBEE HEADWATERS STORAGE					
W	Taylor Creek Nubbin Slough		X			
A	North of Lake Okeechobee Storage			X		
	CALOOSA HATCHEE RIVER BASIN					
D	C-43 Basin Storage & ASR		X, storage only	X		
DDD	Caloosahatchee Backpumping w/STA					Not in LEC Plan
	WATER PRESERVE AREA COMPONENTS					
R	C-9 STA/Impoundment		X			
Q	West C-11 Diversion & Impoundment		X			
BB	Dade-Broward Levee/Pennsuco Wetlands		X			
M p1	Hillsboro Impoundment		X			
M p2	Hillsboro Impoundment ASR			X		
OPE	ACME Basin B Discharge		X			Not simulated by SFWMM
OPE	Protect Wetlands (Strazulla)		X			
OPE	Pal-Mar/Corbett Hydroperiod Restoration		X			
X	C-17 Backpumping & Treatment		X			
Y	C-51 Backpumping & Treatment		X			
U	Bird Drive Recharge Area			X		
	LEVEE SEEPAGE MGMT					
V	L31N Levee Seepage Management & Relocation		X			
O	WCA-3A & 3B Seepage Management		X			
FF	S-356 Structures		X			
	STORAGE WITH ASR COMPONENTS					
K	L-8 Basin Modifications			X		
GGG	C-51 & southern L-8 Reservoir			X		
LL	C-51 Regional Groundwater ASR			X		
VV	Agricultural Reserve Reservoir & ASR			X		

ID	COMPONENT NAME	2005	2010 ⁱ	2015 ⁱⁱ	2020 WITH RESTUDY ⁱⁱⁱ	NOTES
	Deliveries					
AA	Add'l S-345 Structures (L-67 A)		X			
QQ p1	WCA-3 Decomp. & Sheetflow Enhance.		X			
QQ p2	WCA-3 Decomp. & Sheetflow Enhance.				X	
DD	Holey Land Regulation Schedule		X			
EE	Rotenberger Regulation Schedule	X				
KK	WCA-1 Internal Structures	X				
OO	C-111 Operational Modifications	X				
II	G-404		X			
	C-111 Spreader Canal		X			
	BISCAYNE BAY					
FFF	Biscayne Bay Coastal Wetlands (FFF&OPE)				X	
HHH	West Miami-Dade Reuse				X	Only 50% of total capacity applied to LEC-1
BBB	South Miami-Dade Reuse				X	
	LOWER EAST COAST					
AAA	LEC Utility Water Conservation					
CC	Broward County Secondary Canal System		X			
WW	C-111 N Spreader		X			
T	C-4 Divide Structure	X				
	WESTERN BASIN					
CP	Miccosukee Water Mgmt Plan		X			
RR	Flow to NW & Central WCA-3A		X			
CCC	Big Cypress/ L-28 Interceptor Modifications				X	
OPE	Seminole Tribe BC Water Conservation Plan		X			
GG	LAKE OKEECHOBEE ASR			1/2 X	X	
	STAND ALONE OPES					
OPE	LO Watershed WQ Treatment Facility					Not simulated by SFWMM
OPE	LO Tributary Sediment Dredging /P removal					
CP	Lake Istokpoga Regulation Schedule					
CP	Southern Golden Gates Hydrologic Rest.					
CP	Southern CREW Project					
CP	Lake Trafford Restoration					
OPE	Lake Worth Lagoon Restoration					
OPE	Pineland/Hardwood Hammocks					
